0072944

River Corridor/FFTF
Tri-Party Agreement Milestone Review
Meeting Minutes
March 15, 2007

Approval: _____ 5/17/07 Date: _____
J. Hedges (H0-57)
Ecology IAMIT Representative

Approval: _____ Date: 5/17/07
M.S. McCormick (A5-11)
DOE IAMIT Representative

Approval: _____ 5/17/07 Date: _____
N. Ceto (B1-46)
EPA IAMIT Representative, Chairperson See corrections

Minutes Prepared by:

_____ Date: 5-21-07
S.L. Moore (H8-40)
Fluor Hanford, Inc.

Almquist, R.S.	RL	A3-04
Ayres, J.M.	Ecology	H0-57
Bartus, D.	EPA	H0-57
Bazzell, K.D.*	RL	A3-04
Bignell, D.T.*	WCH	H4-25
Bilson, H.E.	FH	H8-20
Blackburn, J.E.*	WCH	H4-15
Bond, R.*	Ecology	H0-57
Bohnee, G.	NPT	
Boyd, A.*	EPA	B1-46
Brown, M.J.	Ecology	H0-57
Butler, D.H.	WCH	H0-34
Cameron, C.E.	EPA	B1-46
Ceto, N.	EPA	B1-46
Chapin, D.H.*	RL	A3-04
Chalk, S.E.	RL	A7-75
Cimon, S.*	ODE	
Clark, C.E.	RL	A5-15
Colvin, T.A.*	PAC	A4-35
Cusack, L.	Ecology	H0-57
DeLozier, F.P.*	WCH	H4-22
Doebler, S.V.	FH	N2-51
Donnelly, J.W.*	WCH	H4-22
Engelmann, R.H.*	FH	H8-12
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Faulk, D.A.*	EPA	B1-46
Franco, J.R.	RL	A3-04
Frey, J.A.	RL	A5-13
Gallagher, R.G.	FH	H5-20
Harris, S.	CTUIR	
Hedges, J.	Ecology	H0-57
Henry, D.	OOE	
Horst, L.	OOE	
Jackson, D.E.	RL	A4-52
Jim, R.	Yakama	
Jones, M.*	Ecology	H0-57
LaRue, D.N.*	WCH	H0-20
McCormick, M.S.	RL	A5-11
Niles, K.	OOE	
Noland, T.W.*	FH	H8-12
Pettiette, P.L.	WCH	H0-21
Piippo, R.E.*	FH	H8-12
Price, J.	Ecology	H0-57
Romine, L.D.	RL	A6-33
Skinnarland, E.R.	Ecology	H0-57
Walsh, J.L.	WCH	H0-20
Weis, J.J.	RL	
Whalen, C.*	Ecology	H0-57
Wolf, A.	CTUIR	
Administrative Record		H6-08

*Attendees

River Corridor/FFTF
Tri-Party Agreement Milestone Review
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River Corridor Project portion of M-016/M-089/M-092-12/M-092-16/M-093/M-094

DOE and Washington Closure Hanford LLC (WCH) provided a handout outlining milestone status, accomplishments, and issues. The information in the minutes reflects discussion based on the handout.

M-016-67, Submit a Treatability Investigation Work Plan for Remedial Actions at 618-10/11 Burial Grounds.

DOE is working with EPA on a Change Package (M-16-07-02) to extend the milestone due date two-months to allow for a 90-day review by DOE on the design solution for 618-10 and 618-11.

M-016-57 and M-016-45 milestones were identified as unrecoverable. M-16-57 for 100-K east basin soils is due to the dispute with M-34-32. Delays with M-016-45 (Complete Interim Remedial Action for 100-B/C Area) is due to finding high concentrations of tritium at 118-B-1 in the deep zone; along with several other items in the issues page (see discussion under RC Issues, next page). DOE submitted a change request on March 12, 2007, which was within the 110-day notification timeline. EPA noted that there is a probability they will reject the Change Package (M-16-07-01), but EPA needs to discuss this issue further. EPA expects the work to be completed by the schedules discussed but the milestone due date may not be extended.

M-016-56, Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6.

This milestone is At Risk but could potentially be completed depending on funding. However, work has not been initiated on this milestone. EPA indicated they may be willing to trade off or adjust work on this milestone to support the additional work in the 100-B/C area.

Project Accomplishments - DOE and WCH briefly mentioned highlights of accomplishments. Ecology requested a status on the chromium contaminated soil treatment at ERDF, and whether the current issues at ERDF were impacting the treatment schedule. DOE and WCH took the action to follow-up with Ecology.

End State and Final Closure Project.

Risk Assessment – Received final approval for the 100 and 300 Area Sampling and Analysis Plan for the Inter-Areas Shoreline Assessment. M-16-72 is on schedule for submittal of the 100 and 300 Area Baseline Risk Assessment Report.

Orphan Sites – WCH stated the orphan site walkdown at 100-IU-2 was completed, and 100-IU-6 was in progress. EPA noted a letter is forthcoming requesting how DOE plans to achieve final closure along the river. Specifically, groundwater unit remediation is not integrated into the

schedule. DOE noted that there is a meeting with the Tri-Parties, scheduled for March 19, 2007, to look at work alignment and priorities, and integration with groundwater.

EPA wanted to thank WCH, for their presentation to the Hanford Advisory Board on the orphan site process. EPA stated it went a long way in increasing confidence of what actions are being taken in outlining areas to evaluate suspect sites that may require investigation or cleanup.

RC Issues

118-B-1 Tritium Plume – The decision was made to drill a borehole to groundwater by the end of March or early April to assess the tritium concentration in soil. This will help determine the conceptual model and drafting of the Explanation of Significant Difference (ESD), which will conduct a balancing factors analysis. The ESD will need to go out for public notification. EPA will make the determination if there is a need for public comment. EPA requested that the cost of excavating to groundwater be included in the ESD. WCH explained they have begun working on the ESD and the background information. A draft should be available to share with the regulators before the borehole is completed to at least gauge if there are major gaps and to eliminate surprises.

In regards to tritium sampling for soils, EPA noted sampling techniques for tritium needed some adjustment to account for evaporation in surface soils samples, and that sampling below the surface was necessary. They have changed the sampling method.

WCH did clarify that the subcontractor performing characterization of the anomalous cylinders had other scheduled work outside of Hanford, and as such were not available until the summer to resume work at 100-B/C.

EPA also stated they took EPA Region 10 staff and attorneys out for a site visit, and many commented on the extent of excavations left open. EPA suggested looking into backfilling before winter, and that additional discussions with DOE were necessary to consider other options or temporary measures.

ERDF Compaction – As a result of the compaction testing data entry falsification discovery, WCH and the ERDF Operations subcontractor management have been very involved with recovery actions. EPA and DOE-HQ consultants have also provided valuable input. At EPA's request a partial trench was dug to see if waste looked compacted. Video results are being edited for time, and will be available. EPA stated the waste looked compacted, which was positive.

The Oregon Department of Energy commented about the statement that 25 of 45 identified corrective actions were completed and asked if there was a timeline for completing the rest of the actions. DOE stated there was a timeline and the remaining actions were more near term completions and not years away. DOE stated that in the next couple of months, ERDF should be back to normal operation, although there will still be testing performed. EPA asked if WCH knew what impact this would have on the schedule for treatment of the chromium-contaminated soil staged at ERDF. WCH did not know but agreed to provide this information to Ecology.

PNNL Integration – PNNL has stated that they want to continue using four complexes and supporting buildings in the 300 area for up to the next 20 years. WCH stated that a multi-company team has been put together to go through the details on what would be required for these buildings to be available for PNNL. WCH noted this will affect various 300 Area milestones, including major milestones as some of these buildings may be over waste sites.

Integration issues.

100-D Area Chromium Source –Ecology stated integration between the two contractors is needed to ensure work scopes complement each other. This will also be discussed at the March 19, 2007 meeting on work alignment/priorities.

FH and DOE have technology money to drill more boreholes in the vicinity of 100-D-12 site in order to pinpoint the contamination source. Plans are for FH to do the rest of the boreholes planned and monitor them for some time. Ecology noted FH has started drilling the seventh well and has made good progress in the last three weeks.

Oregon Department of Energy asked if there was a transfer station near the 100-D-12 site and what was the cleanup at 100-D-12. WCH stated yes, there was, and that 100-D-12 was excavated to ~8', with 24 grid samples taken, and they were all non-detect for Cr^{6}. WCH stated it is very unusual to find contamination at a depth and not at the surface when dealing with chromium.

Interface Between 200 Area GW and River Corridor Baseline Risk Assessment (RCBRA) – WCH is coordinating with other contractor staff in utilizing relevant data.

Fast Flux Test Facility (FFTF) Deactivation

DOE noted that they are now reporting on milestones M-092-09 and M-092-10, which are both on schedule.

DOE provided a handout and there was minimal discussion over and above the information contained in that handout.

M-081-00 Series, Complete FFTF Facility Transition

M-081-14 – DOE stated that, although the milestone is technically complete, they are going to wait until they have completed the sodium drain of the nine large valves before they declare success. This should occur near the end of this fiscal year.

Significant Accomplishments

Fuel Offload – The three shipments of sodium-bonded fuel that were transported into the IEM cell in December will end up at Idaho National Laboratory (INL). The T-3 Cask SARP Addendum was transmitted to EM-63 for approval. Approval of this addendum is required by August 2007 in order to begin shipments of sodium-bonded fuel to INL, which is on the critical path. DOE has responded to comments from Lawrence Livermore Laboratory on the SARP. Comments for the draft transportation plan for MOX fuel were due on 2-23-07.

Planned Actions

Fuel Offload – DOE is scheduled to make a shipment of MOX fuel pins to INL the first part of April.

400 Area WMU Permitted Storage of Sodium-Wetted Waste – DOE received comments from Ecology two months late but efforts to recover the schedule are going well. Meetings have been held with all parties and the next meeting is on March 22, 2007 with EPA. DOE needs to obtain a second Temporary Authorization (TA) from Ecology and they need to develop a new schedule prior to expiration of the second TA.

Project Direction – DOE noted there was a recent change in plans to take the facility to 'dark and cold.' EPA asked how many people were working at the facility now. DOE answered there were approximately 150-160 staff and the number is going down relatively fast.

Project Issues/Risks

The two major issues that may impact the FFTF schedule are:

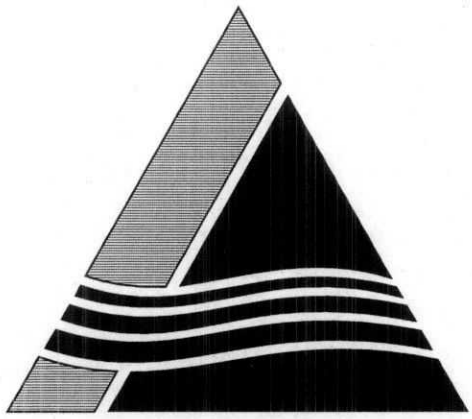
- In order to ship sodium-bonded fuel to INL, a Memo of Agreement needs to be approved for a commitment to provide funding for storage and processing at INL. This MOA needs to be approved by DOE-HQ by 5-1-07 in order to start shipping in August.

- Functional approval of the T-3 Cask SARP Addendum is needed by August 2007 to enable shipment of sodium-bonded fuel to INL.

River Corridor Closure Project

TPA Quarterly Review

For period: December 2006 - February 2007



Tri-Party Agreement

River Corridor Milestones:	
M-16	M-93
M-89	M-94

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

March 15, 2007

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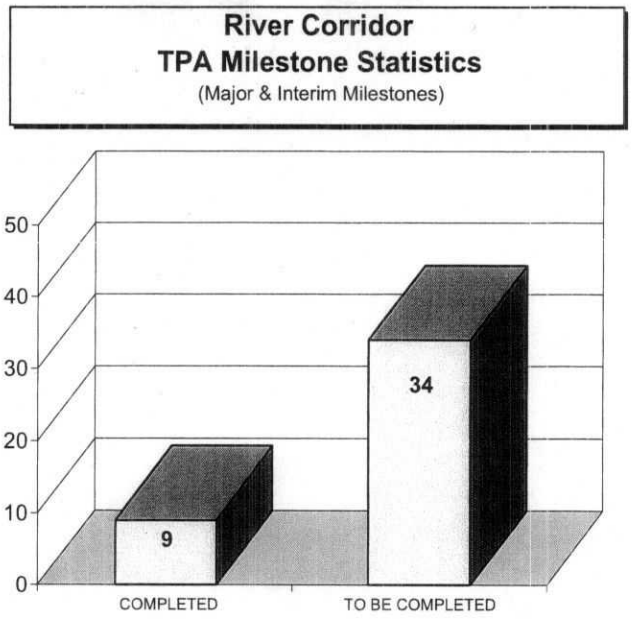


	Compliance Due Date	To Be Completed	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-16 Remedial Design / Remedial Action; Risk Assessment	**9/30/2018** (M-16-00B)	**24**	***M-16-70 (C)***	***10/30/05***	M-16-58	04/30/09
			M-16-63 (C)	***12/31/05***	M-16-52	07/31/09
			M-16-46 (C)	***07/31/06***	M-16-94	12/31/09
			M-16-67	03/31/07	M-16-64	09/30/10
			M-16-60 (C)	***04/30/07***	M-16-51	12/31/10
			M-16-57	04/30/07	M-16-47	12/31/11
			M-16-45	06/30/07	M-16-74	09/30/12
			M-16-72	06/30/07	M-16-53	12/31/12
			M-16-50	07/31/07	M-16-55	12/31/12
			M-16-54	07/31/08	M-16-62	12/31/12
			M-16-73	09/30/08	M-16-00A	12/31/12
			M-16-49	12/31/08	M-16-75	09/30/13
			M-16-56	12/31/08	M-16-69	09/30/15
			M-16-61	12/31/08	M-16-00B	09/30/18
M-93 Reactors on River Final Disposition	**TBD** (M-93-00)	**3**	***M-93-18 (C)***	***12/31/05***	M-93-22	09/30/11
			M-93-23 (C)	***07/31/06***	M-93-20	09/30/12
			M-93-19 (C)	***09/30/09***	M-93-00	TBD
M-89 Closure of 324 Bldg Non-Permitted Mixed Waste Units	**9/30/2010** (M-89-00)	**1**	M-89-00	09/30/10		
M-94 300 Area Surplus Facilities Demolition	**9/30/2015** (M-94-00)	**6**	***M-94-01 (C)***	***12/31/05***	M-94-03	09/30/10
			M-94-05 (C)	***09/30/06***	M-94-08	12/31/11
			M-94-06	12/30/07	M-94-09	09/30/13
			M-94-07	12/30/09	M-94-00	09/30/15
Milestones to be Completed (as of 02/28/07)		**34**	**9** --- **MILESTONES COMPLETED *(C)***			

RIVER CORRIDOR
FY 2007 TPA MILESTONE SUMMARY

Status as of: February 28, 2007

Project	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecoverable	To Be Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
FR	M-16-67	Submit a Technology Development Summary Report for Phases I, II, and III, an Intermediate Design Report, a Remediation Schedule, and a Treatability Investigation Work Plan for Remedial Actions at 618-10 and 618-11 Burial Grounds	03/31/2007	TPA change package under development/being worked with EPA to accommodate RL review of Design Solution				X			
FR	M-16-57*	Initiate Soil Remediation at K-East Basin	04/30/2007							X	
FR	M-16-60	Complete Interim Remedial Actions for at Least 3 of the Following High Environmental Priority 300-FF-2 Waste Sites (316-4, 618-2, 618-3, 618-5, 618-7) and Complete Confirmatory Sampling of 300-FF-2 Candidate Sites 300-7 and 300-9	04/30/2007	12/28/2006 (A)	X						
ESFC	M-16-72	Submit Draft 100 Area and 300 Area Component Baseline Risk Assessment Report	06/30/2007					X			
FR	M-16-45**	Complete Interim Remedial Action for 100-B/C Area	06/30/2007							X	
FR	M-16-50	Initiate Remedial Actions for Remaining Waste Sites for 100-H Area	07/31/2007					X			
Total FY 2007 River Corridor TPA Milestones			**6**		**1**	**0**	**0**	**3**	**0**	**2**	**0**

*M-16-57 - TPA M-34-32 has been identified as not achievable by the responsible Hanford Site contractor; M-16-57 milestone is also unachievable, as it is dependent upon M-34-32 completion. RL transmitted CR #M-16-06-04 proposing date be changed to 8/30/2009. Currently in dispute at IAMIT level; EPA requested integrated schedule be provided.

**M-16-45 has been identified as unrecoverable due to: 1) discovery of tritium soil contamination at depth exceeding cleanup levels, 2) need to seek new subcontractor for 116-C-3 tank remediation/treatment; and 3) complete opening/sampling ~40 remaining anomalous items at 118-B-1. A draft change request has been prepared and discussed with EPA that proposes extending completion date from 6/30/07 to 12/31/07.

RIVER CORRIDOR
FY 2008 TPA MILESTONE SUMMARY

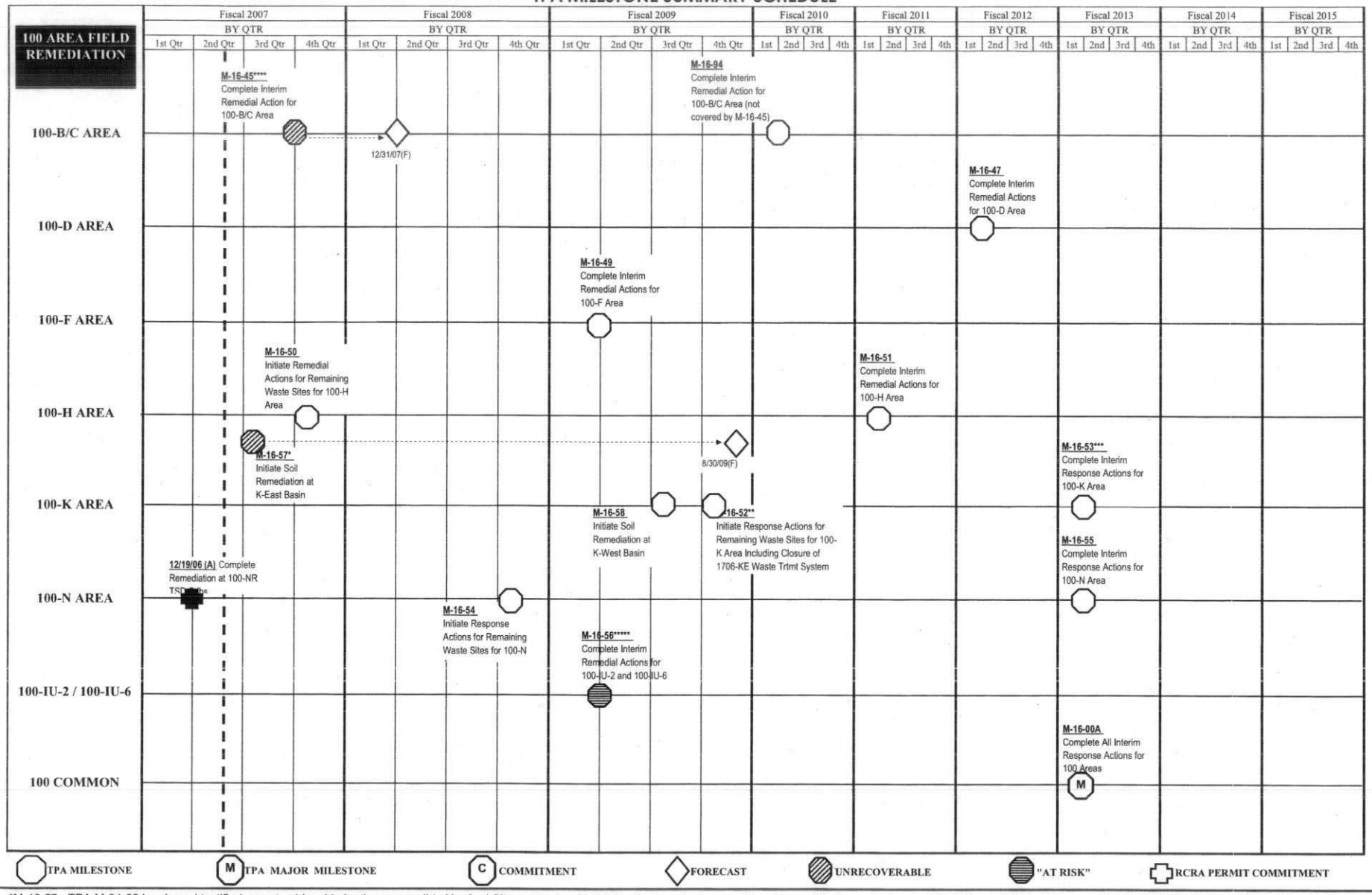
Status as of: February 28, 2007

Project	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecoverable	To Be Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
D4	M-94-06	Complete the Selected Removal and/or Remedial Actions that are Selected for 3 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 333 Facility	12/30/2007	7/31/2007 (F)			X				
FR	M-16-54	Initiate Response Actions for Remaining Waste Sites for 100-N Area	07/31/2008					X			
FR	M-16-73	Initiate Substantial and Continuous Soil Remediation at 618-1 Burial Ground	09/30/2008					X			
Total FY 2008 River Corridor TPA Milestones			**3**		**0**	**0**	**1**	**2**	**0**	**0**	**0**

Status as of: February 28, 2007

River Corridor Closure Project

TPA MILESTONE SUMMARY SCHEDULE



*M-16-57 - TPA M-34-32 has been identified as not achievable by the responsible Hanford Site contractor; M-16-57 milestone is also unachievable, as it is dependent upon M-34-32 completion. RL transmitted CR #M-16-06-04 proposing date be changed to 8/30/2009. Currently in dispute at IAMIT level; EPA requested integrated schedule be provided.

**M-16-52 - Portion that states "including closure of 1706-KE Waste Treatment System" is not RCC scope.

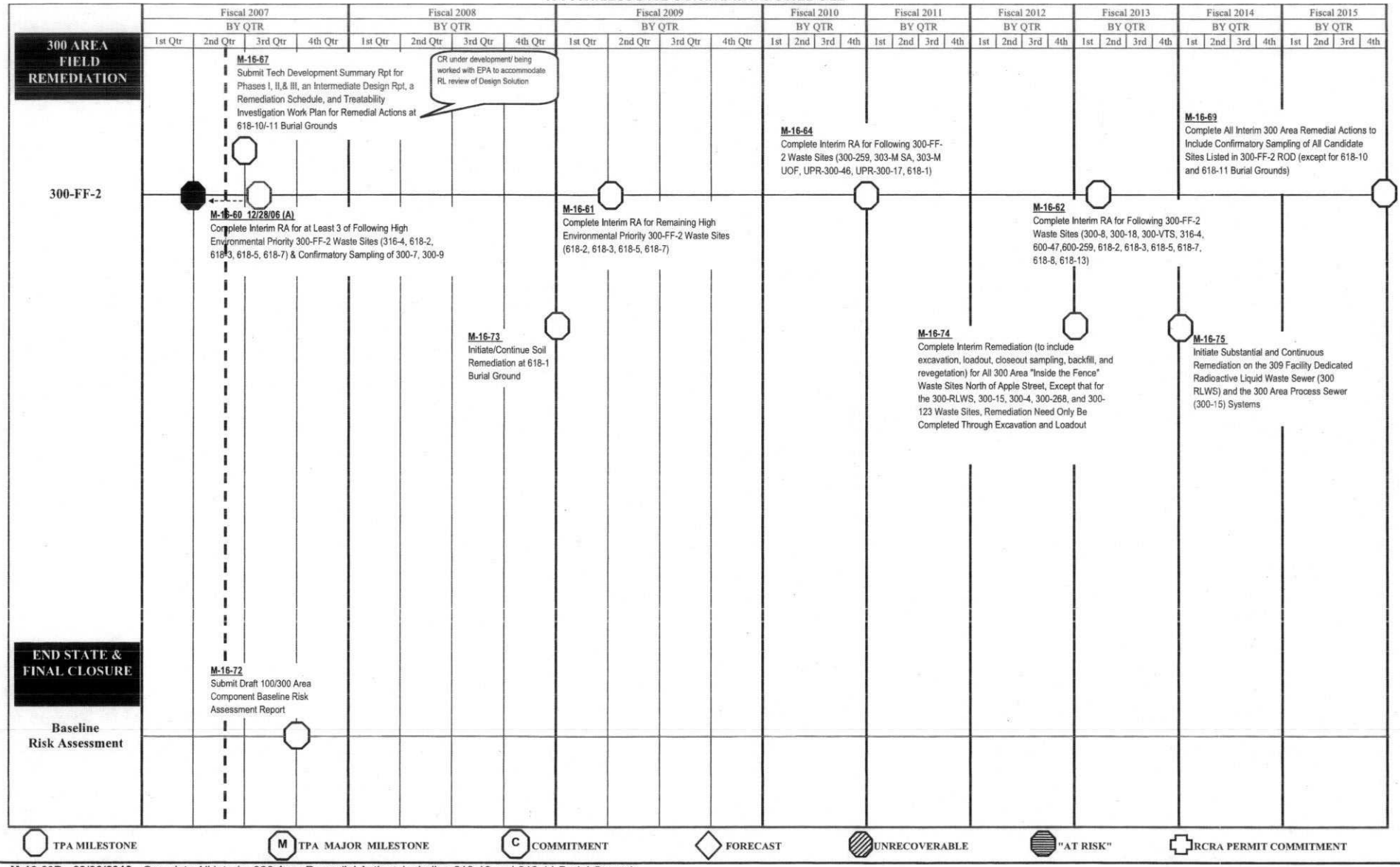
***M-16-53 - Statement in TPA CR M-34-04-01 states "100-K Area remedial action is not complete until K-Basin sludge shipments for disposal off site have taken place". This portion is not RCC scope.

****M-16-45 has been identified as unrecoverable due to: 1) discovery of tritium soil contamination at depth exceeding cleanup levels, 2) need to seek new subcontractor for 116-C-3 tank remediation/treatment; and 3) complete opening/sampling ~40 remaining anomalous items at 118-B-1. A draft change request has been prepared and discussed with EPA that proposes extending completion date from 6/30/07 to 12/31/07.

*****M-16-56 - Once funding levels are known, potential impacts can be assessed. UXO site is a priority and will be completed by 12/31/08.

River Corridor Closure Project

TPA MILESTONE SUMMARY SCHEDULE



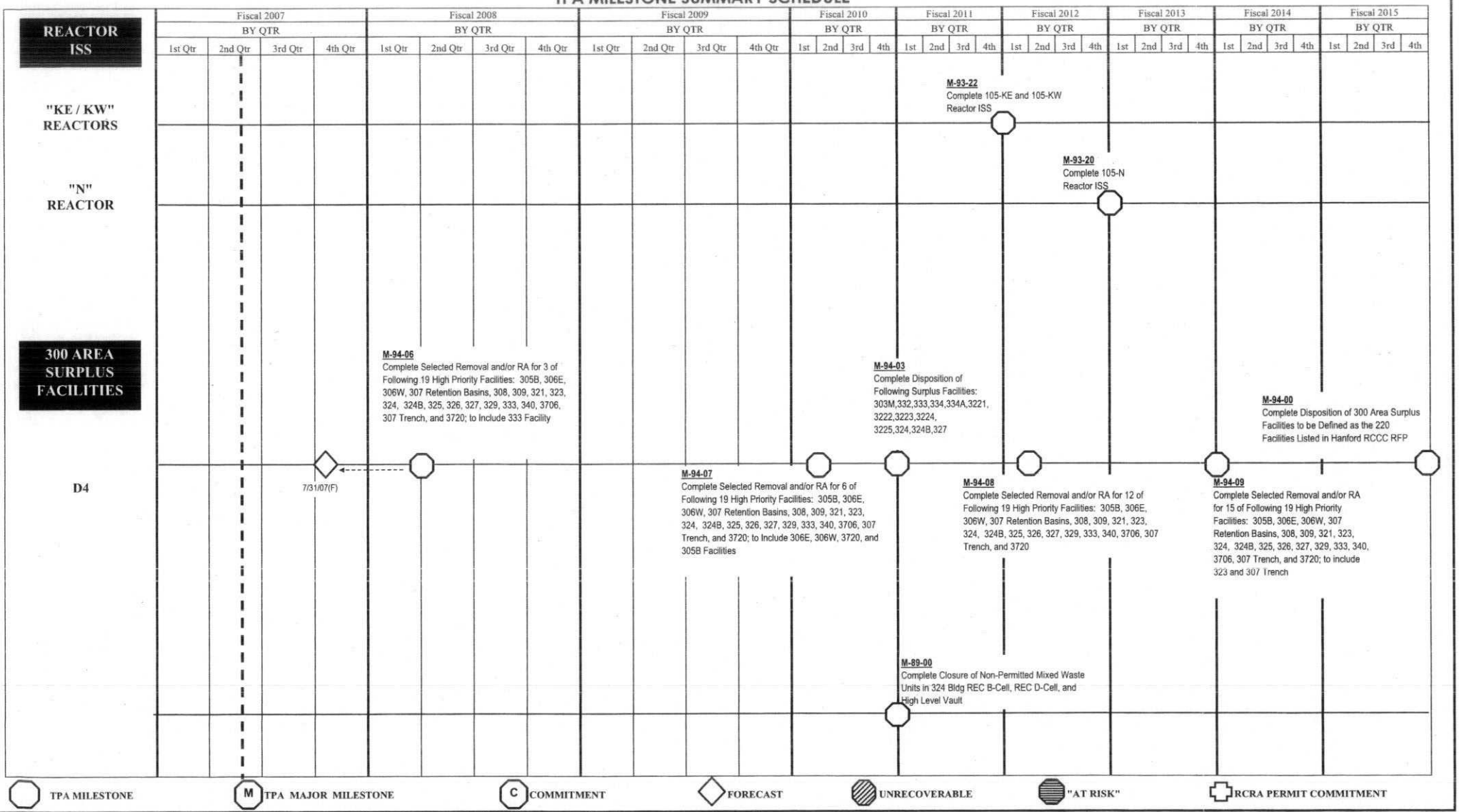
M-16-00B - 09/30/2018 - Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds

C-16-06C - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area

C-16-06D - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area

River Corridor Closure Project

TPA MILESTONE SUMMARY SCHEDULE



M-93-00 (TBD) - Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings

RIVER CORRIDOR TPA CHANGE REQUESTS (December 2006 - February 2007)

There were no River Corridor change requests approved during December 2006 - February 2007.

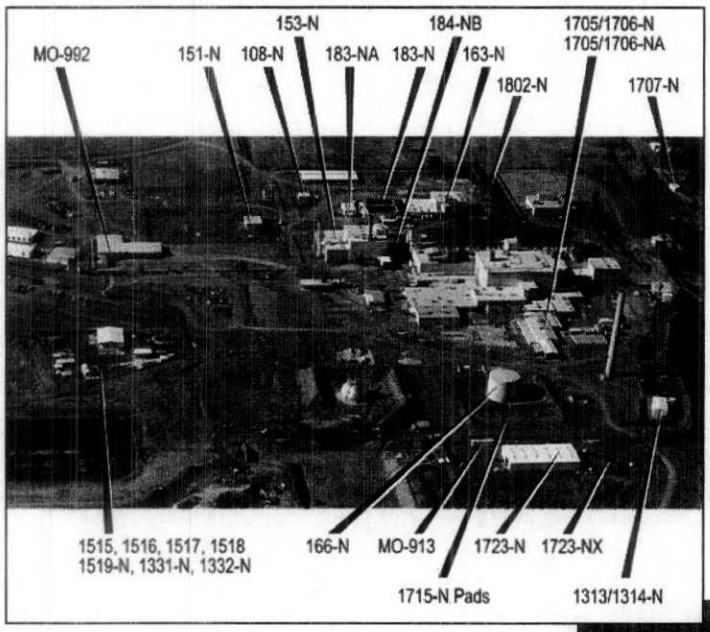
RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

Washington Closure Hanford (WCH) assumed River Corridor cleanup responsibilities on August 27, 2005. Cleanup along the Columbia River will be accomplished by five major WCH projects: Deactivation, Decontamination, Decommissioning, and Demolition (D4) Closure Project, Reactor Interim Safe Storage (ISS) Closure Project, Field Remediation (FR) Closure Project, Waste Operations Project, and End State and Final Closure (ESFC) Project. The following accomplishments cover reporting period December 2006 - February 2007.

D4 Closure Project (M-94-06, M-94-03, M-89-00)

100 Area

- Completed demolition and loadout of 1314N Liquid Disposal Building, and MO-50 and MO-358 mobile office trailers.
- Completed 163N Demineralizer Plant below-grade demolition; loadout is 50% complete.
- Completed preparation of 116N Stack and 184 Power House explosive demolition subcontract RFP.



Demolition Progress Accomplished in the 100-N Area Since August 2005 (Before / After Photos)

300 Area (M-94-06, M-94-03)

- Completed demolition/loadout of 305 building.
- Continued loadout of 333 and 306E buildings.
- Continued hazardous waste removal in 3720, 3706, 3745, 3745A, 3745B, and 384 buildings.

324/327 Facilities (M-89-00)

- 324 facility deactivation (equipment disconnects and waste removal) is ongoing. Also continuing planning for isolation and removal of the 324 hot cells.
- Shipped radium drum from 327 building basement to PEcoS.
- Submitted RFP for 327 wet basin non-destructive assay.

Reactor ISS Closure Project (M-93-22, M-93-20)

- Awarded 105N/109N hazardous material removal subcontract.
- Established criteria and resolved issues on the 105N Reactor/ 109N Heat Exchanger Building demolition/safe storage enclosure (SSE) RFP.
- Transmitted final 100-K Action Memorandum to RL.
- Issued 105-KE/KW draft Removal Action Work Plan (RAWP) to RL.

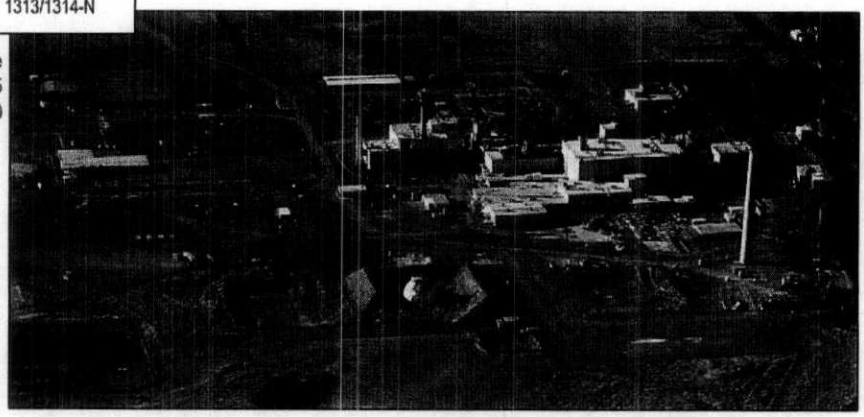
Field Remediation Closure Project (M-16-67, M-16-60, M-16-45, M-16-50)

300 Area (M-16-67, M-16-60)

- Completed TPA Milestone M-16-60, Complete Interim Remedial Actions for at Least 3 of the High Environmental Priority 300-FF-2 Waste Sites, on 12/28/06 (due 4/30/07), which included 618-2, 618-3, and 618-5 burial grounds.
- Continued mobilization activities for 618-7 remediation. The start date has been tentatively set for April 23.
- Initiated 300 Area Explanation of Significant Difference (ESD).
- Initiated 300 Area Supplemental Design for the next 50 waste sites south of Ginko Street.
- Submitted 618-10/11 Design Solution document to RL on 1/31/07.

100 Area (M-16-45, M-16-50)

- A draft change request is being prepared that proposes extending the M-16-45 (complete 100-B/C Area interim remedial actions) completion date from 6/30/07 to 12/31/07. (See "Issues" section.)
- Continued revegetation of nearly 100 acres in 100-B/C Area; planned for completion in March.
- Initiated characterization of 100-C-7 by completing and sampling eight pot holes.
- Completed near-river excavation and stabilization at 128-F-2 Burn Site.
- Continued remediation activities associated with the 126-F-1 pipelines.



- Continued loadout of stockpiled soil from 100-D-30 with new 100-D Area remediation subcontractor.
- Completed removal of exposed 100-D-56 pipeline. Approximately 30 meters remain within concrete encasements that will require demolition prior to removal.
- Mixed and sorted waste in 118-K-1 Burial Ground Trenches E, F, K, and P.
- Completed revegetation of 116-N-1 Crib and Trench on 12/19/06.

Staged Pipe from 100-D-56 in a Lined Pit

Waste Operations Project

- Awarded ERDF expansion (Cells 7-10) design subcontract to a small business from Denver, Colorado. Kickoff meeting was completed on 1/23/07. Received 30% design package in February.
- Issued stand-down order on 1/15/07 to ERDF subcontractor after assessment (performed by subcontractor) results revealed ERDF compaction testing data entries had been falsified. Waste placement and disposal activities resumed 2/9/07 under the *new ERDF Zero Level Placement Plan* methodologies. These operational issues impacted the overall waste transportation and disposal quantities in January.
- Through February, approximately 781,000 tons of contaminated material have been disposed in ERDF since WCH assumed River Corridor cleanup responsibilities on August 27, 2005. More than 6.8 million tons of waste have been disposed in ERDF since operations began in July 1996.

End State and Final Closure Project (M-16-72)

Risk Assessment

- Received final approval of the *100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment (RCBRA) Sampling and Analysis Plan, the Inter-Areas Shoreline Assessment* (DOE/RL-2005-42, Rev. 1). Shoreline sampling continued in support of the Inter-Areas risk assessment.
- Continued development of the 100 Area and 300 Area Component risk assessment report, due for WCH internal review at the end of March.
- Submitted the schedule and resource estimate for performing RCBRA Columbia River Component scope. Input and comments were solicited from regulatory agencies and Hanford Natural Resource Trustees on scope and schedule.
- Issued the *Integrated Strategy for Achieving Final Cleanup Decisions in the River Corridor* (WCH-71, Rev. 0) document.

Long Term Stewardship

- Addressed RL comments on the *Planning for the Transition to Long-Term Stewardship Under the River Corridor Closure Contract,* WCH-134, Decisional Draft, document.

Orphan Sites

- Continued the historical review subtask to support orphan sites evaluations for 100-H Area.
- Completed the field walkdown subtask to support the orphan sites evaluation for the 100-IU-2 operable unit. Initiated the field walkdown for the 100-IU-6 operable unit.
- Completed internal review of the summary report for the 100-D Area orphan sites evaluation.

Debris Dump Site Near Pre-Hanford Homestead

RIVER CORRIDOR ISSUES

- **118-B-1 Tritium Plume (M-16-45):** 118-B-1 remediation was completed in June 2006. Verification soil sampling results indicated elevated residual tritium levels in portions of the burial ground bottom above the cleanup level.

  Status: Multiple pot holing results supported placement of a borehole to groundwater. EPA also requested an Explanation of Significant Difference (ESD) be prepared to the 100 Area Remaining Sites Record of Decision (ROD). This ESD will conduct a balancing factors analysis as required by the original ROD to evaluate eight factors in considering whether further excavation in the deep zone (below 15 feet) to groundwater would be appropriate. Public comment is required for this ESD per the ROD. Fluor Hanford will install the borehole in March/April 2007; borehole data is expected to be available in April. Development of the ESD will occur in February and March, and will be finalized in April after receiving the borehole data. EPA will provide ESD elements to the Hanford Advisory Board prior to the public comment period. Completing remediation of 118-B-1 can not be accomplished by the M-16-45 due date of June 30, 2007. A TPA change package is under development to address this milestone.

  In addition to the soil contaminated with tritium at 118-B-1, there are two additional issues at 100-B/C that are summarized below:

  1. In February 2007, WCH's 100-B/C subcontractor, FE&C, provided notice that the complexities of the 116-C-3 treatment and remediation prompted them to decline performing the work scope. WCH is preparing documentation to procure a qualified subcontractor to perform this unique and specialized work scope, along with approval from RL. Additional time is necessary to prepare the necessary documentation to evaluate and procure a qualified subcontractor to perform the scope of work at 116-C-3. Key steps in the process include preparation of the request for proposal, evaluation of submitted proposal(s), award of the subcontractor, subcontractor mobilization, subcontractor training, subcontractor submittals (i.e., procedures, plans), startup reviews, performance of the work, and final closeout documentation for 116-C-3. This process cannot be completed by the M-16-45 due date of June 30, 2007.
  2. WCH's subcontractor, IES, the company responsible for the safe opening of anomalous, old cylinders at 118-B-1, demobilized and is not available to restart opening the remaining 40 items for nearly six months. RL and WCH are evaluating other options of how to address the remaining 40 anomalous items.

- **ERDF Compaction:** Results of an assessment performed by the ERDF Operations subcontractor revealed that ERDF compaction testing data entries had been falsified. A management concern occurrence report was issued. The subcontractor was issued a stand-down order on 1/15/07.

  Status: An ERDF Response Team was established to develop detailed schedules, corrective action plans, and implement the corrective actions. RL and regulators provided concurrence for restart of disposal operations in unaffected landfill locations once procedure corrections, training, and job hazard analysis were completed. Limited disposal operations resumed 1/19/07. Waste disposal activities are taking place on the 0-foot elevation in accordance with the *ERDF Zero Level Placement Plan* (interim waste placement methods). Through February, 25 of 45 identified corrective actions have been completed. Landfill validation testing is ongoing; in-situ debris observations were performed on 2/23/07 with EPA and RL in attendance.

- **Integration with Pacific Northwest National Laboratory (PNNL):** WCH and other site contractors are developing scenarios affecting long-term retention of 300 Area buildings needed by the PNNL mission. This could affect multiple TPA milestones and will require deferral of some waste site cleanup over 20 years.

RIVER CORRIDOR CLOSURE PROJECT PERFORMANCE SUMMARY
Contract Inception (8/27/05) through February 2007
($K)

	IPB		CUMULATIVE			SCHEDULE VAR		COST VAR	
	BCWS	EAC	BCWS	BCWP	ACWP	$	SPI	$	CPI
D4	628,319	628,319	80,636	112,727	61,386	32,091	1.40	51,341	1.84
Reactor ISS	115,914	115,914	9,771	6,161	4,731	-3,610	0.63	1,430	1.30
Field Remediation	412,610	412,610	77,752	77,724	65,224	-28	1.00	12,500	1.19
Waste Operations	251,860	251,860	25,422	29,306	33,933	3,884	1.15	-4,627	0.86
ESFC	55,954	55,954	7,269	10,653	8,242	3,384	1.47	2,411	1.29
Mission/General Support	322,908	322,908	54,849	54,849	60,240	0	1.00	-5,391	0.91
Transition	3,979	3,979	3,979	3,979	3,752	0	1.00	227	1.06
Contingency	248,248	248,248							
TARGET COST TOTAL	**2,039,792**	**2,039,792**	**259,678**	**295,400**	**237,508**	**35,721**	**1.14**	**57,891**	**1.24**

Schedule Variance Summary:

Through February 2007, the RCC Project was $35.7M ahead of schedule. The positive schedule variance is attributed to accelerated 300 Area and 100-N Area building deactivations/demolitions; accelerated field remediation at 100-F and 100-N Areas; and ERDF support to accelerated work in D4 and Field Remediation Projects. The positive schedule variance is partially offset by 100 Area remediation delays due to discovery of SNF, anomalous waste, tritium concerns, and nuclear safety issues; late approval/award of 105N/109N deactivation and decommissioning subcontract; and stop-work at KE/KW Reactor interim safe storage.

Cost Variance Summary:

At the end of February 2007, the RCC Project had performed $295.4M worth of work, at a cost of $237.5M. This results in a favorable cost variance of $57.9M. The positive cost variance is attributed to 100 Area building demolition performed under budget; significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; significant underruns in 300 Area utility charges and S&M activities; and field remediation underruns. The positive underrun is partially offset by overruns due to discovery of chromium, and ERDF cost overruns due to less than forecast waste receipts and transportation costs.

INTEGRATION ISSUES

This section of the quarterly review discusses Central Plateau milestones and workscope that potentially affect River Corridor milestones.

- 100-D Area Chromium Source Investigation and Remediation, Technology Development, and Groundwater Remediation.

  Ecology and DOE-RL have come to an agreement to move forward and accelerate D-Area chromium source investigation and remediation. There must be an integrated effort among activities related to source zone characterization and remediation in the vadose zone, technology demonstration both in the vadose zone and groundwater, and the ongoing and future groundwater activities remediation as well as expected deep and shallow zone vadose zone remediation. A detailed integrated plan between the WCH and Fluor activities showing schedules and deliverable and the budget planned must be submitted to Ecology in March, in accordance with TPA Section 4.1.

  The Tri-Parties, along with WCH and Fluor Hanford, held a 100-D holistic meeting in January to discuss groundwater cleanup, source cleanup, technology development activities planned at 100-D, as well as the continued operation of the 182-D reservoir. This was an integration meeting, and schedules will be provided to Ecology for these activities.

- Interface Between 200 Area Groundwater Operable Units and River Corridor Baseline Risk Assessment.

  Future impacts from 200 Area groundwater operable units have to be estimated at the Columbia River. Statements in a recent workshop on the 200-ZP-1 and 200-PW-1/3/6 operable unit feasibility studies were that information on future impacts had been provided to the River Corridor Baseline Risk Assessment (RCBRA), to be incorporated into the RCBRA. It was implied that the RCBRA would look at future (beyond 2018) impacts from 200 Area groundwater operable units. This implication contradicts current understanding by WCH (and Ecology) that the RCBRA is evaluating risks from current groundwater conditions. This scope topic has since been discussed between Fluor Hanford and WCH to verify a common understanding among the projects.

- 100-N Area Treatment, Storage, and Disposal (TSD) Units Post-Closure Groundwater Monitoring Plan.

  Ecology requested, and DOE-RL agreed in principle, to prepare a comprehensive groundwater monitoring plan for the 100-N Area. It would integrate monitoring needs for characterization and remediation, and for CERCLA, RCRA, and AEA requirements. Physical closure activities for the 1324N/1324NA TSDs have been completed, but Ecology has not moved the units into the post-closure portion of the Site-wide RCRA permit. Ecology is waiting on submittal of the comprehensive monitoring plan. Ecology has also drafted unit-specific permit conditions for the 1301N and 1325N TSD units because of this issue.

  Awaiting DOE-RL to direct Fluor Hanford to prepare the comprehensive groundwater monitoring plan for 100-N.

U.S. Department of Energy
Richland Operations Office
Assistant Manager for River Corridor
Fast Flux Test Facility Project
Tri-Party Agreement
M-81 and M-92 Deactivation Milestones

FFTF Project Tri-Party Agreement
Remaining M-81 and M-92 Deactivation Milestones
(Listed Chronologically by Due Date)

Milestone	Milestone Title	Due Date
M-81-10-T01	**Submit Final Sodium Disposition Report* (Status: On Schedule)**	**07/31/07***
M-92-10	**Submit Hanford Site Sodium Disposition Report* to Ecology (Status: On Schedule)**	**07/31/07***
M-81-00A-T04	Complete Transfer of Special Fuel to DOE's Idaho National Engineering Laboratory for Consolidated Storage **(Status: On Schedule)**	03/31/09
M-92-09	Establish Milestones and/or Target Dates if Needed for Acquisition of New Facilities, Modifications of Existing Facilities, and/or Modification of Planned Facilities Necessary for Storage, Treatment/Processing, and Disposal of Hanford Site Sodium **(Status: On Schedule)**	07/30/09
M-81-14	**Complete FFTF Sodium Drain (Status: Milestone has been completed; however, RL plans to wait and complete by end of FY 2007, the sodium drain of the large MHTS valves prior to declaring milestone completion).**	**09/30/09**
M-81-15	Submit FFTF Surveillance and Maintenance Plan **(Status: On Schedule)**	06/30/10
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase **(Status: On Schedule)**	02/28/11
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown **(Status: On Schedule)**	02/28/11

*Report Being Prepared Fulfills Both Milestones

DOE-RL FFTF Program Manager Assessment of Contractor Performance

- Fluor Hanford continues to focus on the high priority deactivation activities to support fuel offload and sodium drain.
- Secondary priority of Systems Deactivation continues on plant systems that are no longer needed.
- Project costs and schedule continue to be maintained in control.

Significant Accomplishments
(Last 3 Months)

- **Fuel Offload**
  - Three T-3 cask shipments of sodium-bonded fuel pins received from PFP and payloads transferred into the IEM cell.
  - Completed the T-3 Cask SARP Addendum and transmitted to EM-63 for approval (the Addendum is for the sodium-bonded fuel transfer to DOE Idaho).
  - Draft transportation plan for MOX fuel was sent to the states and Native American tribes for review.

Significant Accomplishments (Last 3 Months)

- **Sodium Drain**
  - Continued work activities to complete the large primary MHTS valves drain by end of FY 2007 (once done, the M-81-14 milestone will be declared complete).
- **Auxiliary Systems Shutdown**
  - FSF placed in interim shutdown status (i.e., minimum surveillance).
  - Began field work on removal of 1 of 10 remaining PCB transformers.

Significant Planned Actions
(Next 6 Months)

- **Fuel Offload**
  - Continue efforts to obtain a new T-3 Cask Certificate of Compliance for sodium-bonded fuel shipments.
  - Complete recertification of the two T-3 Casks.
  - Complete transfer of MOX fuel pins to DOE Idaho.
- **Sodium Drain**
  - Continue work activities to complete the sodium drain of the MHTS valves by FY 2007.
- **Auxiliary Systems Shutdown**
  - Continue systems shutdown when they are no longer needed.
  - Complete removal and disposition of 3 PCB transformers (by FY 2007).

Significant Planned Actions
(Next 6 Months)

- **400 Area WMU RCRA/State Dangerous Waste Permitted Storage of Sodium-Wetted Waste**
  - Comments received from State late but efforts to recover schedule going well.
  - Resolve all state and EPA comments by end of March 2007. Next review meeting scheduled March 22, 2007.
  - Obtain second 180-day Temporary Authorization (May 15, 2007 – November 10, 2007) from Ecology.
  - Maintain original durations on revised schedule after March 2007 to achieve permit effective before expiration of the second Temporary Authorization.

Significant Planned Actions
(Next 6 Months)

- **Project Direction**
  - On February 08, 2007, directed the contractor to defer initiation of excessing FFTF spare equipment and parts for 90 days (from the end of September 2007 to the end of December 2007) due to GNEP.
  - On February 28, 2007, received from the contractor a BCR, and life cycle cost and schedule estimate. New proposed baseline depicts a long-term surveillance and maintenance phase followed by a ramp-up to completion of deactivation and decommissioning.

Schedule/Cost Performance
Fiscal Year to Date Status ($000s) through 02/07

Description	BCWS	BCWP	ACWP	SV	CV	BAC
FFTF	$11,367.3	$11,430.4	$11,423.1	$63.1	$7.3	$29,759.5

Variance Analysis: The schedule and cost variances are negligible.

Note: Cost /schedule performance associated with revised baseline.

Project Issues/Risks

- Delay or denial of MOA by HQs for commitment to provide funding for sodium-bonded fuel storage and processing at DOE Idaho.
- Delay of receipt of a T-3 Cask Addendum by August 2007 to enable shipment of sodium-bonded fuel to DOE Idaho.
- The GNEP may have effects to the closure of FFTF or vice versa.
- Delay in issuance of 400 Area WMU RCRA permit for sodium-wetted waste effective within timeframe of second Temporary Authorization.

Summary

- Progress continues to be made on the T-3 Cask SARP addendum.
- The project is pursuing a rebaselining to continue long term, low cost surveillance and maintenance mode from FY 2010, as currently defined, through FY 2014.
- GNEP issues continue to be worked for resolution.
- Continue working with contractor and Ecology to obtain 400 Area WMU RCRA permit for storage of sodium-wetted waste.

Tri-Party Agreement Major Milestone Management Review
March 15, 2007

Name	Organization	Mail Stop	Phone
Sonya Moore	FH TPA	H8-40	372-3320
Terry Noland	FH TPA	H8-12	376-6574
Cheryl Whalen	ECOLOGY	H0-57	372-7972
Mandy Jones	Ecology	H0-57	372-7916
Jeb Blackburn	WCH	H4-22	372-9958
Fran DeLozier	WCH	H4-22	372-2043
DEENA LaRue	WCH		375-9431
Jack Donnelly	WCH	H4-22	372-9834
AL Farabee	DOE	A3-04	376-8089
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KEVIN DAZZERC	DOE.RL		373-0463
R PHILLIPS	FH		373-3235

March 15, 2007

River Corridor Milestone Review

Place: EPA Conference Room, 309 Bradley Boulevard, Suite 115, Richland, WA
Time: 10:00 am - 11:00 am
Chairperson: Nick Ceto

Agenda

10:00 am	M-16-00	Complete Remedial Actions
	M-93-00	Disposition of Surplus Reactors
	M-94-00	300 Area Surplus Facilities
	M-89-00	324 Bldg. Closure of MW Units
	M-92-00	Facilities for Sodium and Special Case Waste
10:45 am	M-81-00	Fast Flux Test Facility Transition
11:00 am	Adjourn River Corridor Milestone Review	